

Title (en)

Multifunctional trainer for strength training

Title (de)

Mehrfunktions-Trainingsgerät zum Krafttraining

Title (fr)

Entraîneur multifonction pour entraînement musculaire

Publication

EP 1852152 A1 20071107 (EN)

Application

EP 07396003 A 20070427

Priority

FI 20060424 A 20060502

Abstract (en)

The invention relates to a multifunctional trainer for strength training. The trainer comprises a body (1), a counterforce unit (2) for generating a counterforce to resist the exercise movements, a set of movement arms (3 1 , 3 2) supported to the body (1) for performing different exercise movements, and a set of elongated tensile elements (4 1 , 4 2), arranged to act between the counterforce unit (2) and the movement arms (3 1 , 3 2) for applying the counterforce resisting each exercise movement from the counterforce unit to the movement arms. The trainer comprises an automatic mechanical coupler (5), to which the tensile elements (4 1 , 4 2) are connected, and which coupler is adapted to, immediately at start of each exercise movement, automatically couple the tensile element corresponding to each separate movement arm for said exercise movement, to the counterforce unit (2) in a force-applying manner, for applying the counterforce of the counterforce unit to said exercise movement, without the need for manual connection prior to performing said exercise movement, and without affecting, during said exercise movement, the tensile elements connected to the other movement arms, which are not subject to tension during said exercise movement.

IPC 8 full level

A63B 21/00 (2006.01)

CPC (source: EP FI US)

A63B 21/00 (2013.01 - EP FI US); **A63B 21/018** (2013.01 - FI); **A63B 21/155** (2013.01 - EP US); **A63B 21/157** (2013.01 - EP US); **A63B 21/4047** (2015.10 - EP US); **A63B 21/0628** (2015.10 - EP US); **A63B 2225/102** (2013.01 - EP US)

Citation (search report)

- [XY] US 5302161 A 19940412 - LOUBERT CRAIG A [US], et al
- [Y] US 6579213 B1 20030617 - WEBBER RANDALL T [US], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1852152 A1 20071107; **EP 1852152 B1 20100317**; AT E460965 T1 20100415; DE 602007005294 D1 20100429; FI 20060424 A0 20060502; FI 20060424 L 20071103; US 2007275836 A1 20071129; US 7775946 B2 20100817

DOCDB simple family (application)

EP 07396003 A 20070427; AT 07396003 T 20070427; DE 602007005294 T 20070427; FI 20060424 A 20060502; US 79981307 A 20070502